



STIC Search Report

EIC 1700

STIC Database Tracking Number: 101045

**TO: Eisa Elhilo
Location: CP3 9D34
Art Unit : 1751
August 13, 2003**

Case Serial Number: 10/052317

**From: Kathleen Fuller
Location: EIC 1700
CP3/4 3D62
Phone: 308-4290**

Kathleen.Fuller@uspto.gov

Search Notes



STIC Search Results Feedback Form

EIC17000

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Kathleen Fuller, EIC 1700 Team Leader
308-4290, CP3/4-3D62

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1713

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC1700 CP3/4 3D62



SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: EISA ELHILLO Examiner #: 78424 Date: 8/6/03
Art Unit: 1751 Phone Number 30 5-0217 Serial Number: 10052317
Mail Box and Bldg/Room Location: CP3, 9D34 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Primary intermediates for oxidative coloration of hair
Inventors (please provide full names): Mu-Hui Lin et al.

Earliest Priority Filing Date: 1/22/2001

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please do search on the attached

formula

Thank you

Estanislao

8/6/03

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>R. Fuller</u>	NA Sequence (#) <u>1</u>	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>1</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>8/13/03</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>20</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>20</u>	Other _____	Other (specify) _____

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 12 AUG 2003 HIGHEST RN 565411-31-6
DICTIONARY FILE UPDATES: 12 AUG 2003 HIGHEST RN 565411-31-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> FILE HCAPLUS

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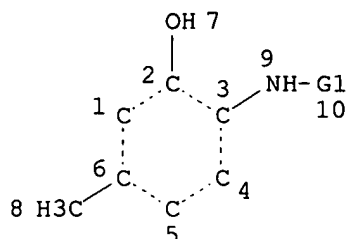
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FILE COVERS 1907 - 13 Aug 2003 VOL 139 ISS 7
FILE LAST UPDATED: 12 Aug 2003 (20030812/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> D QUE

L5 STR



60 structures from this query

VAR G1=AK/CY
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L7 60 SEA FILE=REGISTRY SSS FUL L5
 L8 43 SEA FILE=HCAPLUS ABB=ON L7
 L9 2 SEA FILE=HCAPLUS ABB=ON L8 AND (HAIR OR KERAT?)
 L10 4 SEA FILE=HCAPLUS ABB=ON L8(L) (COLOR? OR DYE?)
 L11 2 SEA FILE=HCAPLUS ABB=ON L10 AND COSMETIC?/SC, SX
 L12 2 SEA FILE=HCAPLUS ABB=ON L9 OR L11

=> D L12 ALL HITSTR 1-2

2 CA references with utility

L12 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:574890 HCAPLUS
 DN 137:129542
 TI Primary intermediates for oxidative coloration of **hair**
 IN Lim, Mu-Ill; Pan, Yuh-Guo
 PA Clairol Incorporated, USA
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K007-13
 CC 62-3 (Essential Oils and **Cosmetics**)
 FAN.CNT 1

applicants

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058657	A1	20020801	WO 2002-US1617	20020118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SI, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002170124	A1	20021121	US 2002-52317	20020118

PRAI US 2001-263460P P 20010123

OS MARPAT 137:129542

AB Primary intermediates for **hair** coloring compns. for oxidative dyeing of **hair** include 2-substituted amino-5-methylphenol compds. to provide yellow or orange yellow color shades with various combinations of primary intermediates and couplers. For example, a **hair** dye was formulated contg. 2-benzylamino-5-methylphenol, o-aminophenol, and other conventional **hair** prepn. ingredients.

ST **hair** oxidative intermediate dye aminomethylphenol derivIT **Hair** preparations

(dyes; oxidative **hair** dyes contg. primary intermediates and couplers)

IT 90-15-3, Naphthalen-1-ol 95-55-6, 2-Aminophenol 95-70-5, 2-Methylbenzene-1,4-diamine 95-88-5, 4-Chlorobenzene=1,3-diol 106-50-3, Benzene-1,4-diamine, biological studies 108-46-3, Benzene-1,3-diol, biological studies 123-30-8, 4-Aminophenol 150-75-4, 4-Methylaminophenol 591-27-5, 3-Aminophenol 608-25-3, 2-Methylbenzene-1,3-diol 1004-74-6, Pyrimidinetetramine 2380-86-1, 1H-Indol-6-ol 2835-95-2, 5-Amino-2-methylphenol 2835-98-5, 2-Amino-5-methylphenol 2835-99-6, 4-Amino-3-methylphenol 7469-77-4, 2-Methyl-naphthalen-1-ol 7575-35-1 16867-03-1, 2-Aminopyridin-3-ol 17672-22-9, 2-Amino-6-methylphenol 26021-57-8, 3,4-Dihydro-2H-1,4-benzoxazin-6-ol 41927-22-4, 4-Methyl-2-phenyl-2,4-dihydro-3H-pyrazol-3-one 53222-92-7, 3-Amino-2-methylphenol 55302-96-0, 5-(2-Hydroxyethylamino)2-methylphenol 70643-19-5, 2-(2,4-Diaminophenoxy)ethanol 83763-47-7 93841-24-8, 2-(2,5-Diaminophenyl)ethanol 94082-77-6 129697-50-3 131311-66-5 155601-17-5 157469-54-0 220264-60-8 307493-94-3, 3-(2,4-Diaminophenoxy)propan-1-ol 329320-36-7 **444160-89-8** **444160-90-1** **444160-91-2** **444160-92-3**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative **hair** dyes contg. primary intermediates and couplers)

IT 104102-98-9P 220985-61-5P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of primary dye intermediates for **hair** dyes)

IT 700-38-9, 2-Nitro-5-methylphenol

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of primary dye intermediates for **hair** dyes)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

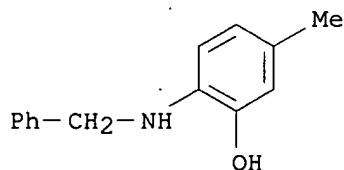
(1) Hoeffkes; DE 19604178 A1 1996 HCAPLUS

IT **444160-89-8** **444160-91-2** **444160-92-3**

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oxidative **hair** dyes contg. primary intermediates and couplers)

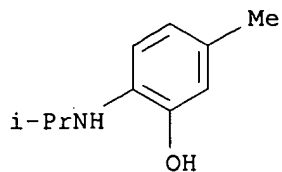
RN 444160-89-8 HCAPLUS

CN Phenol, 5-methyl-2-[(phenylmethyl)amino]- (9CI) (CA INDEX NAME)



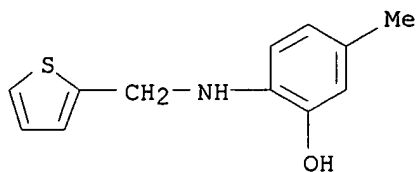
RN 444160-91-2 HCAPLUS

CN Phenol, 5-methyl-2-[(1-methylethyl)amino]- (9CI) (CA INDEX NAME)



RN 444160-92-3 HCAPLUS

CN Phenol, 5-methyl-2-[(2-thienylmethyl)amino]- (9CI) (CA INDEX NAME)



L12 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN

AN 1997:584560 HCAPLUS

DN 127:180923

TI Oxidative hair dyes

IN Rose, David; Meinigke, Bernd; Hoeffkes, Horst

PA Henkel Kgaa, Germany

SO Ger. Offen., 5 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM A61K007-13

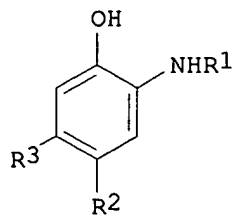
ICS D06P001-32; D06P003-08

ICA D06P003-14; D06P003-30

CC 62-3 (Essential Oils and Cosmetics)

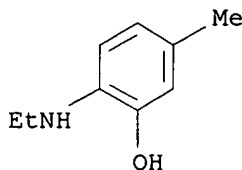
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19604178	A1	19970807	DE 1996-19604178	19960206
PRAI	DE 1996-19604178		19960206		
OS	MARPAT 127:180923				
GI					

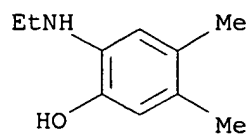


I

- AB Oxidative **hair** dyes contg. a 2-(N-alkylamino)phenol (I; R1 = C1-4 alkyl; R2, R3 = H, C1-2 alkyl, C1) as coupler and a conventional primary arom. amine (bearing a 4-amino or 4-hydroxy substituent) or aminopyrimidine as developer provide an intense dark or deep reddish-brown coloration. Thus, N-ethyl-2-amino-4,5-dimethylphenol was prepd. by NaBH4 redn. of 2,5,6-trimethylbenzoxazole in THF. A cream emulsion **hair** dye contg. C12-18 fatty alcs. 10, ethoxylated C12-14 fatty alc. sulfate Ne salt 25 g, p-aminophenol 7.5 mmol, 2-ethylamino-4-methylphenol 7.5 mmol, Na2SO3 1.0, and water to 100 g (pH 9.5) was mixed (100:50) with 3% H2O2 soln. and applied to gray **hair** to confer a cognac-brown color.
- ST oxidative **hair** dye alkylaminophenol; phenol alkylamino oxidative **hair** dye
- IT Amines, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(arom.; oxidative **hair** dyes)
- IT **Hair** preparations
(dyes, oxidative; oxidative **hair** dyes)
- IT 95-70-5 106-50-3, 1,4-Benzenediamine, biological studies 123-30-8, p-Aminophenol 611-24-5, 2-(Methylamino)phenol 614-70-0, 2-(Ethylamino)phenol 1004-74-6, 2,4,5,6-Tetraaminopyrimidine 42485-84-7, 2-(Ethylamino)-4-methylphenol **70444-54-1**, 2-(Ethylamino)-5-methylphenol 70444-55-2 193958-71-3, 2-(Ethylamino)-5-chlorophenol **193958-72-4**, 2-(Ethylamino)-4,5-dimethylphenol 193958-73-5, 2-(Ethylamino)-4,5-dichlorophenol 193958-74-6, 2-(Ethylamino)-4-methyl-5-chlorophenol **193958-75-7**, 2-(Ethylamino)-4-chloro-5-methylphenol
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oxidative **hair** dyes)
- IT **70444-54-1**, 2-(Ethylamino)-5-methylphenol **193958-72-4**, 2-(Ethylamino)-4,5-dimethylphenol **193958-75-7**, 2-(Ethylamino)-4-chloro-5-methylphenol
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(oxidative **hair** dyes)
- RN 70444-54-1 HCAPLUS
- CN Phenol, 2-(ethylamino)-5-methyl- (9CI) (CA INDEX NAME)



- RN 193958-72-4 HCAPLUS
- CN Phenol, 2-(ethylamino)-4,5-dimethyl- (9CI) (CA INDEX NAME)



RN 193958-75-7 HCAPLUS

CN Phenol, 4-chloro-2-(ethylamino)-5-methyl- (9CI) (CA INDEX NAME)

